

ELECTRONIC CIRCUIT SYSTEM, AND SIGNAL TRANSMISSION
METHOD, TO IMPROVE SIGNAL TRANSMISSION EFFICIENCY AND
SIMPLIFY SIGNAL TRANSMISSION MANAGEMENT

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ABSTRACT OF THE DISCLOSURE

10 An electronic circuit system has at least three
macro circuits and a plurality of signal lines for
connecting the macro circuits to one another into a loop.
Each of the macro circuits includes a logic circuit and a
memory circuit and has a plurality of input terminals and
15 a plurality of output terminals. Signals are transmitted
through the loop in a single specified direction in
synchronization with a clock signal. Each of the macro
circuits receives the signals at the input terminals
thereof, accepts the signals if the signals are destined
20 for the macro circuit, and transfers the signals to the
output terminals thereof if the signals are not destined
for the macro circuit. Even if the macro circuits
simultaneously transmit signals, the electronic circuit
system transmits the signals in the specified direction
25 through the loop in synchronization with the clock signal
up to destination macro circuits.

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